

**Commonwealth of Kentucky**  
**Division for Air Quality**  
**EXECUTIVE SUMMARY**

FINAL

Conditional Major / Synthetic Minor, Construction / Operating

Permit: F-07-047

The Four Rivers BioEnergy Company, Inc.

Calvert City, KY 42029

November 27, 2007

IL-Won Shin, Reviewer

SOURCE ID: 21-157-00066

AGENCY INTEREST: 97253

ACTIVITY: APE20070001

**SOURCE DESCRIPTION:**

The Four Rivers BioEnergy Company, Inc. (Four Rivers) is proposing to construct a new biofuels facility to manufacture both biodiesel and ethanol in Calvert City, Marshall County, Kentucky. The plant will manufacture biodiesel at a rate of 38.5 million gallons per year and fuel grade ethanol at a rate of 115.5 million gallons per year. The primary energy source for the facility will be natural gas fired package boilers.

Four Rivers plans to construct the biodiesel facility first and then the ethanol manufacturing plant. Initially, steam generation at the biodiesel facility will be provided by a small boiler. However, once the ethanol plant is constructed all steam generation required for both ethanol and biodiesel manufacturing will be provided by two large boilers installed at the ethanol plant. This operational limit is necessary to maintain the biofuel facility operations below major source thresholds.

**PUBLIC AND U.S. EPA REVIEW:**

On October 17, 2007, the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in *The Marshall County Tribune-Courier* in Benton, Kentucky. In addition, notification of the issuance of the draft permit was sent to the U.S. EPA on October 12, 2007 via e-mail. The public comment period expired 30 days from the date of publication. No comments were received during this period. A public hearing was held on November 16, 2007. No comments were made by the public. The permit is now being issued final.